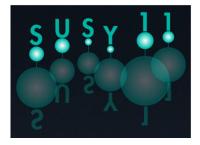Contribution ID: **438**   Type: **not specified**

Computational Uncertainties in Public BR(B -> X_s gamma) Codes

Tuesday, 30 August 2011 15:50 (20 minutes)

The branching ratio BR(B -> X_s gamma) is a sensitive probe for physics beyond the SM and thus an important constraint for parameter fits of SUSY models.

It is therefore highly important to have a good assessment of theoretical and computational uncertainties, including the differences in the implementations and/or approximations used in public computational tools. We perform a detailed comparison of the various public BR(B -> X_s gamma) codes, evaluating the differences of the SM and MSSM results and their dependence on relevant parameters. The impact on SUSY fits is also discussed.

Presenter: Mr FRANK, Sebastian (Institute of High Energy Physics (HEPHY) - Vienna/Austria)

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